

TOM McCALL

KESSLER R. CANNON Director

E. J. WEATHERSBEE Region Administrator

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHWEST REGION

1010 N.E. COUCH STREET • PORTLAND, OREGON • 97232 • (503) 238-8471

SEP 2 0 1974

Final Date for Submission of Written Comments:

OCT 4 1974

Fortland General Electric Company Station L Power Plant 621 S.W. Alder Portland, Oregon 97205

> Re: WQ - PGE Station L Multnomah County

Gentlemen:

Your application for a National Pollutant Discharge Elimination System (NPDES) permit has been reviewed by the Department and a proposed NPDES permit has been drafted. You are invited to review the attached copy and submit any comments you may have in writing prior to the date indicated above.

Other documents which will be distributed to the public are enclosed for your review. Comments on the content of these documents will also be appreciated.

After your comments, if any, have been received a public notice regarding your application will be circulated to interested individuals and organizations. The proposed permit and a fact sheet will also be made available to those persons requesting them.

Once the public review and participation period is over the final NPDES permit will be issued. When issued it will fulfill the Department's requirements for a waste discharge permit as well as fulfill the requirements of the National Pollutant Discharge Elimination System.

If you have any comments or questions, please feel free to contact Mr. Dick Nichols, Portland, Oregon, 238-8471.

Very truly yours,

KESSLER R. CANNON Director

RJN:1b

E. J. Weathersbee, Administrator

Northwest Region

cc: Water Quality Division

cc: Environmental Protection Agency-Oregon Operations





DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHWEST REGION

1010 N.E. COUCH STREET ● PORTLAND, OREGON ● 97232 **●** (503) 238-8471

Appl. No. OR-002704-9.

File No. 69160

County: Multnomah

TOM McCALL

KESSLER R. CANNON Director

E. J. WEATHERSBEE Region Administrator

PUBLIC NOTICE
Notice of Application for
NPDES Waste Discharge Permit

The Portland General Electric Company, Station L. Power Plant, 621 S. W. Alder, Portland, Oregon 97205, has applied for issuance of a National Pollutant Discharge Elimination System Waste Discharge Permit in accordance with Oregon Revised Statutes 449.083 and the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972.

DESCRIPTION OF FACILITY AND DISCHARGE

The Portland General Electric Company owns and operates a 30 megawatt steam electric generating plant on the Willamette River in Portland. Plant operation would be only on emergency demand of the regional power pool and even then would be completely dependent upon the availability of natural gas on an "interruptable" supply arrangement. Boiler feed is City of Portland water and pretreated. Turbine condenser cooling water is discharged at a rate of 64.6 million gallons per day (MGD), and its temperature is about 15°F above the temperature of the Willamette River. Service water for river draft screen cleaning, air compressor cooler and bearing water accounts for a 4.0 MGD discharge to the river.

TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department proposes to issue a permit to operate wastewater control facilities and to discharge to public waters subject to certain effluent limitations and special permit conditions. This proposed determination is tentative.

DEQ-26

Department of Environmental Quality 1234 S. W. Morrison Street Portland, Oregon 97205 Telephone: (503) 229-5696

Application No. OR-002704-9

Date:

County: Multnomah

File No. 69160

This public notice and fact thee! has been prepared to provide public information concerning the following application for a National Pollutant Discharge Elimination System Permit to discharge pollutants to navigable waters pursuant to the provisions of Oregon Revised Statutes (ORS) 449.083 and the Federal Water Pollution Control Act Amendments of 1972, P. L. 92-500, October 18, 1972.

APPLICANT: Portland General Electric Company

Station L Power Plant

621 S. W. Alder

Portland, Oregon 97205

DESCRIPTION OF FACILITY AND DISCHARGE:

The Portland General Electric Company owns and operates a 30 megawatt steam electric generating plant on the Willamette River in Portland. Plant operation would be only on emergency demand of the regional power pool and even then would be completely dependent upon the availability of natural gas on an "interruptable" supply arrangement. Boiler feed is City of Portland water and pretreated. Turbine condenser cooling water is discharged at a rate of 64.6 million gallons per day (MGD), and its temperature is about 15°F. above the temperature of the Willamette River. Service water for river draft screen cleaning, air compressor cooler and bearing water accounts for a 4.0 MGD discharge to the river.

TENTATIVE DETERMINATION, APPLICABLE EFFLUENT LIMITATIONS AND WATER QUALITY STANDARDS

The Department of Environmental Quality has reviewed the application and has tentatively determined to issue a permit to discharge subject to lawful rules and regulations, water quality standards for the Multnomah Channel and the main stem Willamette River contained in OAR 340-41-045, applicable effluent guidelines and limitations and certain special conditions. A final determination will not be made until after all comments received, pursuant to the public notice, have been evaluated.

The receiving stream has been classified for the following beneficial uses: fish and other aquatic and animal life rearing, passage and habitat; fishing, hunting, boating and other waster contact recreation, domestic, industrial, irrigation and livestock water uses, navigation, aesthetic qualities.

The effluent limitations are based upon plant design capabilities, State of Oregon Water Quality Standards, and Environmental Protection Agency effluent standards.

Portland General Electric Company Station L Power Plant Page 2 Public Notice and Fact Sheet

PROPOSED EFFLUENT LIMITATIONS

Parameter

Limitation

Condenser Cooling Water Discharge:

Flow

64.7 MGD

Temperature

shall not exceed 15°F. above the river temperature.

shall not be outside the range

6.5-9.0

pН

Service Water Discharge:

Before July 1, 1977

After July 1, 1977

Flow Settleable Solids Floating Solids 4.0 MGD

4.0 MGD

Lowest Practicable Level
Lowest Practicable Level

l ml/l
none visible

PROPOSED SCHEDULE OF COMPLIANCE.

 Concept proposal shall be submitted by July 1, 1978 for facilities for meeting Environmental Protection Agency thermal standards by July 1, 1980.

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2. Detailed plans shall be submitted by October 1, 1976 for facilities to be installed by July 1, 1977 to treat screen backwash portion of service water discharge to meet above effluent limitations.

PROPOSED SPECIAL CONDITIONS

1. No discharges shall be allowed between June 1 and October 31.

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- 2. The permittee shall cease operations when notified that a fishery or other resource is likely to be damaged by the discharge.
- 3. The proposed allowable mixing zone shall not exceed a segment of the Willamette River from the point of discharge to 200 feet out into the river and extending from 200 feet upstream from the point of discharge to 400 feet downstream to a maximum depth of 10 feet. Durth dues not upper in permit.
- 4. Pertinent monitoring of the plant operations and discharges will be required.
- 5. The proposed expiration date is March 31, 1979.

Per	rmit	Numbe	er:		
Expi	ratio	n Dat	e:	3/31/79	•
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PRELIMINARY DRAFT

FOR A

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

TO BE ISSUED BY

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

Pursuant to ORS 449.083 and P.L. 92-500

ISSUED TO:	REFERENCE INFORMATION
Portland General Electric Company	File Number: 69160
Station L Power Plant 621 S.W. Alder Portland, Oregon	Appl. No.: Received OR-002704-9
PLANT SITE:	Major.Basin: Willamette
1841 S.E. Water Avenue, Portland	Minor Basin:
	Receiving Stream: Willamette River
ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY	River Mile: 13.5
	County: Multnomah
KESSLER R. CANNON Date Director	
DEDICTORPED ACT	THITMING

PERMITTED ACTIVITIES

Until such time as this permit expires or is modified or revoked, the Portland General Electric Company, Station L Power Plant is herewith permitted to:

- a. Operate waste water disposal facilities at the Station L steam electric power plant.
- b. Discharge waste waters to the Willamette River.
- c. Construct wastewater control facilities.

All of the above activities must be carried out in conformance with the requirements, limitations and conditions which follow.

All other waste discharges are prohibited.

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SPECIAL CONDITIONS

- Prior to July 1, 1978 the permittee shall submit a report containing a concept proposal and time schedule for providing such wastewater control facilities as are necessary to comply with the requirements of 40 CFR Part 423.13 for heated discharges by July 1, 1983. The report shall be started by October 1, 1977.
- As soon as practicable, but not later than October 1, 1976, the permittee shall submit detailed engineering plans for providing such facilities prior to July 1, 1977, as are required to comply with the effluent limitations as specified in condition S7 of this permit. The plans shall be started by January 1, 1976.
- s3. The permittee is expected to meet the compliance schedules and interim dates which have been established in conditions S1 and S2 of this permit. Either prior to or no later than 14 days following any lapsed compliance date the permittee shall submit to the Department a notice of compliance or non-compliance with the established schedule.
- S4. Prior to constructing or modifying any waste water control facilities, detailed plans and specifications shall be approved in writing by the Department.
- S5. The quantity and quality of uncantaminated condenser cooling water and boiler blowdown effluent discharged directly or indirectly to the Willamette River shall be limited not to exceed the following:

Parameter

Limitation

F, TOM	•
Temp	erature
рН	

Shall not exceed 64.7 MGD Shall not exceed 15° F above river background Shall not be outside the range 6.5 - 9.0

S6. Beginning at the date of issuance of this permit and ending June 30, 1977, the service water discharge effluent discharged directly or indirectly to the Willamette River shall be limited not to exceed the following:

Parameter

Limitation

Flow Settleable Solids Floating solids Shall not exceed 4.0 MGD Lowest practicable level Lowest practicable level

S7. After July 1, 1977, the quality and quantity of service water discharge effluent discharged directly or indirectly to the Willamette River shall be limited as follows:

Parameter

Limitations

Flow Settleable Solids Floating Solids Shall not exceed 4.0 MGD Shall not exceed 1 ml/l None visible

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S8.	The	permit	tee	shall	not	discharg	e any	wastew	water to	the	Will	amet t e	River	between
***	June	e 1 and	Oct	ober	31 of	each ye	ar.	white.	years.	this	have	temp	Janes J.	our.

- 59. The total discharge shall be controlled to maintain a reasonably constant flow rate throughout each 24 hour operating period.
- S10. Notwithstanding the effluent limitations established by this permit, no wastes shall be discharged and no activities shall be conducted which will violate Water Quality Standards as adopted in OAR 340-41-045 except in the following defined mixing zone:

The allowable mixing zone shall not exceed that segment of the Willamette River from the point of discharge to 200 feet out into the river and extending from 200 feet upstream of the point of discharge to 400 feet downstream. Fact that limits depth to 10 feet.

- S11. No petroleum-base products or other substances which might cause the Water Quality Standards of the State of Oregon to be violated shall be discharged or otherwise allowed to reach any of the waters of the state.
- S12. Sanitary wastes shall be disposed of to the City of Portland municipal sewerage system.
- observe and inspect all waste handling, treatment and disposal facilities and the receiving stream above and below each point of discharge at least daily to insure compliance with the conditions of this permit. A written record of all such observations shall be maintained at the plant and shall be made available to the Department of Environmental Quality staff for inspection and review upon request.
- The permittee shall monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the wastes discharged. A record of all such data shall be maintained and submitted to the Department of Environmental Quality at the end of each calendar month. Unless otherwise agreed to in writing by the Department of Environmental Quality, data collected and submitted shall include but not necessarily be limited to the following parameters and minimum frequencies:

Parameter	Minimum Frequency
Condenser Cooling Water Discharge Flow Temperature (intake & discharge) pH	Daily Daily grab sample Daily grab sample
Service Water Discharge Flow	Daily estimate
Settleable solids Floating solids	Daily grab sample Daily grab sample

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- S15. The traveling screens on the cooling water intake shall be so operated and maintained that they will provide adequate protection to the fishery resources of the Willamette River.
- S16. The cooling water returned to the Willamette River shall be discharged at an elevation and in a manner approved by the Oregon Fish and Wildlife Commissions and this Department. How does this reconcile with the statement in the fact such that the water your shall not extend to a depth quater than 10 feet.
- S17. The permittee shall cease operations when notified that a fishery or other resource is or is likely to be significantly and adversely affected by the discharge.
- S18. Within 30 days of the issuance of this permit the permittee shall submit a detailed description of the sampling procedures used, sample analysis techniques and exact location of sampling stations.
- An adequate contingency plan for prevention and handling of spills and unplanned discharges shall be in force at all times. A continuing program of employee orientation and education shall be maintained to ensure awareness of the necessity of good inplant control and quick and proper action in the event of a spill or accident.
- S20. The permittee shall, during all times of disposal, provide personnel whose primary responsibilities are to assure the continuous performance of the disposal system within the limitations of this permit.

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GENERAL CONDITIONS

Gl. All discharges and activities authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

G2. Monitoring procedures:

- a. Monitoring shall begin on the first day of the month following issuance of this permit.
- b. Monitoring reports shall be submitted by the 15th day of each following month.
 - c. Monitoring reports shall be submitted on approved NPDES report forms.
 - d. All records of monitoring activities and results, including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records, shall be retained by the permittee for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the Director.
 - e. The permittee shall record for each measurement or sample taken pursuant to the requirements of this permit the following information: (1) the date, exact place and time of sampling; (2) the dates the analyses were performed; (3) who performed the analyses; (4) the analytical techniques or methods used and (5) the results of all required analyses.
 - f. Samples and measurements taken to meet the requirements of this condition shall be representative of the volume and nature of the monitored discharge.
 - g. All sampling and analytical methods used to meet the monitoring requirements specified in this permit shall, unless approved otherwise in writing by the Department, conform to the latest edition of the following references:
 - 1) American Public Health Association, Standard Methods for the Examination of Water and Wastewaters (13th ed. 1971).
 - 2) American Society for Testing and Materials, A.S.T.M. Standards, Part 23, Water, Atmospheric Analysis (1970).
 - 3) Environmental Protection Agency, Water Quality Office, Analytical Control Laboratory, Methods for Chemical Analysis of Water and Wastes (April, 1971).
- G3. All waste solids, including dredgings and sludges, shall be utilized or disposed of in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state and such that health hazards and nuisance conditions are not created.



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- G4. The diversion or bypass of any discharge from facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except (a) where unavoidable to prevent loss of life or severe property damage or (b) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the terms and conditions of this permit. The permittee shall immediately notify the Department in writing of each such diversion or bypass in accordance with the procedure specified in Condition G12.
- G5. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- G6. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, a new application must be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans have been approved and a new permit or permit modification has been issued.
- G7. After notice and opportunity for a hearing this permit may be modified, suspended or revoked in whole or in part during its term for cause including but not limited to the following:
 - a. Violation of any terms or conditions of this permit or any applicable rule, standard, or order of the Commission;
 - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
 - c. A change in the condition of the receiving waters or any other condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- G8. If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Act for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee shall be so notified.
- G9. The permittee shall, at all reasonable times, allow authorized representatives of the Department of Environmental Quality:
 - a. To enter upon the permittee's premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this permit;

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- b. To have access to and copy any records required to be kept under the terms and conditions of this permit;
- c. To inspect any monitoring equipment or monitoring method required by this permit; or
- d. To sample any discharge of pollutants.
- G10. The permittee shall maintain in good working order and operate as efficiently as practicable all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
- Gll. The Department of Environmental Quality, its officers, agents and employees shall not sustain any liability on account of the issuance of this permit or on account of the construction or maintenance of facilities because of this permit.
- G12. In the event the permittee is unable to comply with all of the conditions of this permit because of a breakdown of equipment or facilities, an accident caused by human error or negligence, or any other cause such as an act of nature, the permittee shall:
 - a. Immediately take action to stop, contain and clean up the unauthorized discharges and correct the problem.
 - b. Immediately notify the Department of Environmental Quality so that an investigation can be made to evaluate the impact and the corrective actions taken and determine additional action that must be taken.
 - c. Submit a detailed written report describing the breakdown, the actual quantity and quality of resulting waste discharges, corrective action taken, steps taken to prevent a recurrence and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or the resulting liability for failure to comply.